Electrical safety test

Legal requirements for safe use of electronic products

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Manufacturers of electronic products are required to provide documentation that the marketed products meet all applicable safety requirements. The requirements vary from market to market; even inside the European Union national deviations exist.

A common misconception is that assessment of electrical safety is only required for products supplied by at least 50 Volt AC or 75 Volt DC. However, these voltage limits only define whether the Low Voltage Directive takes effect.

A number of other directives also include requirements to electrical safety, such as the Medical Device Directive, the Radio Equipment Directive and the General Product Safety Directive. Thus, electrical safety assessments must be performed on virtually all electronic products.

FORCE Technology can test your product, and we offer accredited CB reports and certificates according to a number of safety standards for the EU and the rest of the world. FORCE Technology can also help you to get clarity on whether certain updates of your product are necessary, before a safety standard is met. We offer a hands-on review of the product and technical documentation enabling you to make the necessary adjustments in due time during the development project.

> " The most important points for us are that FORCE Technology's tests are an impartial and competent approval of our product, which provides us with a good basis, when we start to sell the products. The test procedure has also been educational for us, as the test has given us new information about our product.

– Christian Trobro, Product Safety & Liability Manager, ASSA Abloy

The documentation from the accredited electrical safety test can be used directly in the approval process, e.g. for CE marking. A demonstration of compliance with the safety requirements of relevant directives is best done with a methodically correct conducted test, which is assured by FORCE Technology's accreditation.

FORCE Technology is accredited to perform electrical safety tests and has the competencies and necessary test facilities for this purpose. We have some of the industry's most experienced and knowledgeable test experts, who focus on you ending up with a complete and successful result.

With FORCE Technology as your test partner for electrical safety testing, you will get:
- Accredited third party test cf. DANAK and CB scheme
- Methodologically correct tests
- Testing conducted according to the standards relevant to your industry
- Expert advice on necessary adjustments of the test procedure, if any
- Access to extensive knowledge about standards through FORCE Technology's active participation in standardisation working groups
- One-stop shop with the possibility of expanding the testing with tests including other parameters.

SPECIFICATIONS
FORCE Technology's accredited electrical safety test consists of two parts: First, FORCE Technology assesses your design and documentation. When we have established that all the required documents and information are available, we conduct a detailed examination to assess, whether your product meets the approval requirements.

FORCE Technology provides you with a checklist and a test plan enabling you to make the necessary preparations. Prior to the test, you will receive a written overview of what is needed for completion of the test, e.g. software, auxiliary equipment, and design documentation.

As an added benefit, you may choose a half-day workshop including a review of your product, requirements and test methods, and you will be informed on the exact documentation that must be in place prior to completion of the approval process.

MORE INFORMATION
FORCE Technology can help with advice and specialist knowledge on electrical safety.

Contact us to find out more: tel. +45 43 25 14 50.

STRATEGIC ADVANTAGES

With an electrical safety test you will gain a number of strategic advantages:

- Use of accredited test provider ensures method correctness and a credible report
- CB scheme certificate and report provide global market access
- One-stop shop - e.g. "in-house" Safety and EMC test and approval
- Clear and effective documentation for CE marking or other approval of your product
- Possibility of guidance on test approach and design customisation before launch

INDUSTRIES

FORCE Technology offers electrical safety testing of products within most industries, including:

- Consumer electronics
- Industrial electronics
- Medical device and welfare
- Machinery and production equipment
- Audio/video
- IT, multimedia, and telecom

FACTS

Hørsholm
Aarhus

Typically, test results are published as:

- Non-accredited test journal according to your specifications
- Accredited DANAK report
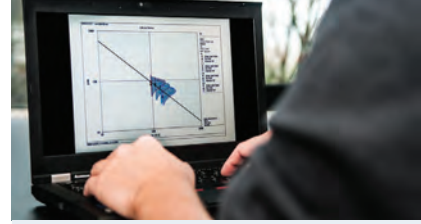- CB scheme certified report

SIMILAR SERVICES

FORCE Technology offers a wide range of other test services, please see below. In addition, we can offer a customised solution, where we perform tests across several parameters within a single process, according to your needs. Contact us to find out more: +45 43 25 14 50.
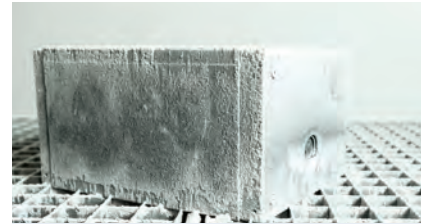
ACCELERATED EMC TEST

ACCELERATED ROBUSTNESS TEST

ACCELERATED RELIABILITY TEST

ACCREDITED CALIBRATION OF HUMIDITY SENSORS

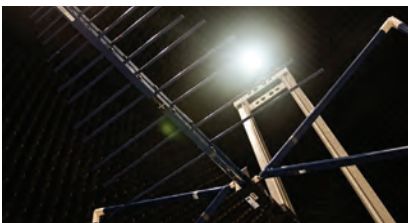**ACCREDITED MECHANICAL TEST**

ACCREDITED INGRESS PROTECTION (IP)

ACCREDITED CLIMATIC TEST

ACCREDITED EMC TEST

ADVICE ABOUT PRODUCT APPROVALS

WIRELESS APPROVAL AND PERFORMANCE TEST

ACCREDITED PACKAGING TEST

TENSILE AND FATIGUE TEST

GUIDANCE ABOUT MARKET ACCESS FOR MEDICAL DEVICES

EMC PRE-TEST: DO-IT-YOURSELF

ELECTRICAL SAFETY TEST

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